

**SAS Superstructure**

Location: 04-SF-80-13.2 / 13.9

Client Name: CalTrans

Run date 21-Nov-14

Time 11:29 AM

Daily Diary Report by Bid Item

Contract No.: 04-0120F4

Diary #: 351 Const Calendar Day: 679 Date: 19-Jul-2011 Tuesday

Inspector Name: Bruce, Matt Title: Transportation Engineer

Inspection Type: Intermittent

Shift Hours: 07:00 am 03:30 pm Break: 00:30 Over Time:

Federal ID:

Location:

Reviewer: Mathur, Lalit

Approved Date:

Status: Submit

**04-0120F4
04-SF-80-13.2/13.9
Self-Anchored
Suspension Bridge****Weather****Temperature** 7 AM 50 - 60 12 PM 60 - 70 4PM 60 - 70**Precipitation** 0.00"**Condition** Partly overcast to mostly sunnyWorking Day ☒ If no, explain:**Diary:**

Dispute

Work description.

- Inspected the temporary bearing grout pad placement operation with Lalit Mathur. An informal inspection was performed since this is temporary work, however it does interface with the permanent structure (E2 cap beam) so some attention is given to the details of the grouting operation. The following are comments related to the operation:

- 1.) ABF engineers Zach Lauria and Eric blue were responsible for this operation while ABF superintendent Scott Smith was supervising.
- 2.) Masterflow 928 55lb bags were used with a grout mixer/pump and the manufactures recommendation of 1.1 Gallon of Water was used with one 55lb bag of grout.
- 3.) The grouting operation began 8:45am as mixing commenced and efflux tests were done on the grout mix. The initial efflux time was 45 seconds, was then brought down to 17seconds before being pumped.
- 4.) At 8:55am a grout hose broke on the south walkway of the W-Line truss. District 4 SWPPP engineer Robert Wong was called at this point and made aware of the issue to be onsite for the remainder of the grouting operation.
- 5.) After replacing the deficient grout hose a new one was connected and additional efflux tests were done. The first two tests failed since there were "clumps" in the mix that clogged the funnel. The third test had an efflux of 23 seconds and ABF began to pump and place the grout into the north W-Line forms. The grout temperature for the passing test was 73F and the S.G. = 2.14
- 6.) Completed placement of grout into the north W-Line pad at 9:45am.
- 7.) Completed placement of grout into the south W-Line pad at 10:10am.
- 8.) Completed placement of grout into the south E-Line pad at 10:45am. Leaks in the forms were observed for this grout pad.
- 9.) Completed placement of grout into the north E-Line pad at 11:00am.
- 10.) According to Sal (Smith Emery technician) the passing efflux times recorded were 23, 17, 30, 18 seconds. The corresponding S.G. was 2.14, 2.06, 2.2, and 2.12. The grout temperature ranged from 73F to 78F and the ambient temperature ranged from 60F to 65F during the grouting operation. Also 8 sets of 3 cubes were made with 2 at 7 days, 2 at 56 days, and the remaining 4 to be put on hold.
- 11.) Lalit recommended to ABF superintendent Scott Smith to use a curing compound on the exposed surface areas of grout to prevent cracking, ABF elected to use wet rags instead.

- Monitored the placement of the bikepath panels for surveying purposes.
 - Worked on miscellaneous surveying issues from the GPS equipment to OBG, bikepath, and cable works.
 - Continued to review Tai-Lin Lui's comments particularly related to surveying for Submittal 2419R00
- Erection Plan: Pier E2 Bearing and Shear Key.
- See Lalit's diary for additonal details on the temporary bearing grouting operation, equipment, and labor.
 - See Lalit's diary for details on the operation, equipment, and labor for the working platform extension



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work on the W2 cap beam suspended soffit platform.

- See Sebastain's for details on the operation, equipment, and labor for the bikepath panel placement.
- Responded to RFI 2515R00 "Epoxy Grout: W2 precast cover slabs".

Attachment



ABF ironworkers placing more bikepath panels today.



ABF laborers placing grout at the north W-Line temporary bearing while vacuuming the standing water inside the forms.



Observed thermal cracks just a few hours after the grouting operation seen on the south end of the north E-Line temporary bearing



Grout was spilled onto the truss walkway, truss members and the E2 foundation. No grout was seen leaking into the bay.



Broken grouting hose on the W-Line temporary truss south walkway.



ABF ironworkers connecting the additional steel beams for the W2 working platform extension.

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ABF ironworkers pulling the anchor rods at the E2E column Shear Key to verify which grouting inlet/outlet pipe corresponds with a particular rod.



Grout mixer/pump, water tank and old Masterflow 928 grout bags used for temporary grouting operation today.



Covered Maasterflow 1205 grout superbags near the existing E1 pier on YBI.



ABF ironworkers pulling the anchor rods at the E2E column Shear Key to verify which grouting inlet/outlet pipe corresponds with a particular rod.